

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P274920

Luminaire Tested: **J2-WL-40L82765-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P274920
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-784-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J2-WL-40L82765-1D-UNV-W2A-W-4 (3000K)
Description: JAYLUM J2 SUSPENDED LED LUMINAIRE, FROSTED LENS.
2700K-6500K CCT VividTune LIGHT ENGINE.
Light Source: (168) 2700K-6500K CCT, 80 CRI LEDS, TUNED TO 3000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3737.4 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Direct

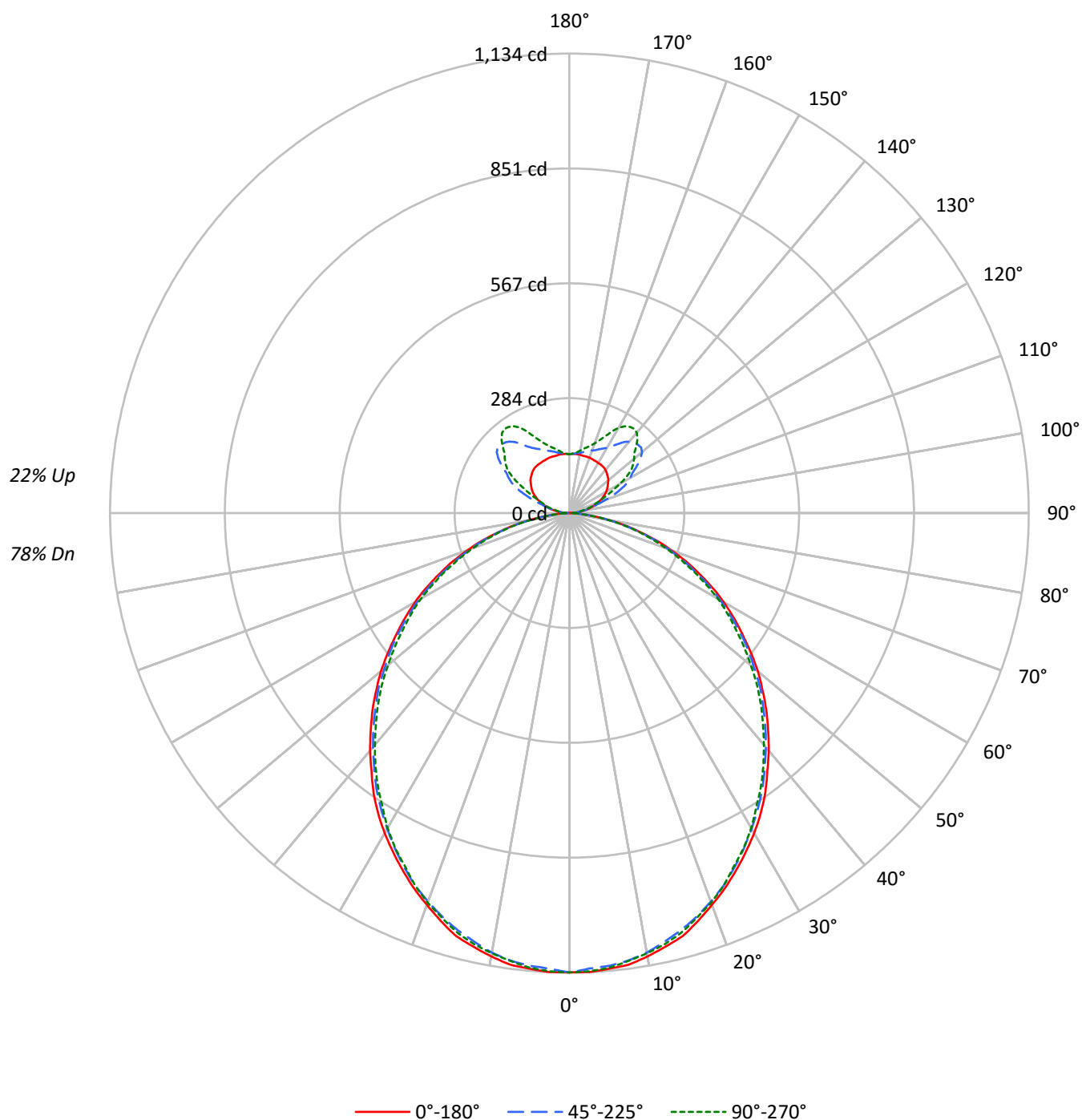
Input Watts (W): 36.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	114	114	114	114	109	109	109	109	99	99	99	90	90	90	82	82	82	78		
1	104	100	96	92	99	95	92	89	87	84	82	80	78	76	73	71	70	66		
2	95	87	81	75	90	83	78	73	76	72	68	70	66	63	64	61	59	55		
3	87	77	69	63	82	73	66	61	67	62	57	62	57	53	57	53	50	47		
4	79	68	60	53	75	65	58	52	60	54	49	55	50	46	51	47	43	40		
5	73	61	52	46	69	58	51	45	54	47	42	50	44	40	46	41	38	35		
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31		
7	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	29	27		
8	58	45	37	31	55	44	36	31	40	34	29	38	32	28	35	30	26	24		
9	54	41	33	28	52	40	33	28	37	31	26	35	29	25	32	27	24	22		
10	51	38	31	25	48	37	30	25	34	28	24	32	27	23	30	25	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9152	9152	9152
5°	9149	9088	9126
10°	9108	9030	9046
15°	9034	8908	8954
20°	8840	8767	8791
25°	8670	8594	8560
30°	8501	8386	8368
35°	8308	8187	8122
40°	8068	7949	7869
45°	7846	7727	7631
50°	7623	7482	7338
55°	7334	7241	7068
60°	7103	6935	6844
65°	6745	6564	6420
70°	6283	6128	5993
75°	5596	5505	5446
80°	4477	4519	4389
85°	2890	2973	3057



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.8	2.9
10°-20°	302.1	8.1
20°-30°	445.5	11.9
30°-40°	520.3	13.9
40°-50°	522.5	14.0
50°-60°	459.9	12.3
60°-70°	342.1	9.2
70°-80°	187.5	5.0
80°-90°	42.7	1.1
90°-100°	21.5	0.6
100°-110°	68.1	1.8
110°-120°	128.4	3.4
120°-130°	161.6	4.3
130°-140°	159.1	4.3
140°-150°	128.2	3.4
150°-160°	82.1	2.2
160°-170°	44.9	1.2
170°-180°	14.2	0.4
0°-30°	854.4	22.9
0°-40°	1374.7	36.8
0°-60°	2357.2	63.1
0°-90°	2929.4	78.4
90°-120°	218.0	5.8
90°-150°	666.9	17.8
90°-180°	808.0	21.6
0°-180°	3737.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1134	1134	1134	1134	1134	
5°	1129	1126	1122	1126	1126	107
15°	1081	1074	1066	1075	1071	304
25°	973	971	965	964	961	448
35°	843	838	831	828	824	526
45°	687	685	677	669	668	530
55°	521	523	514	507	502	467
65°	353	353	344	340	336	350
75°	179	179	176	174	175	191
85°	31	32	32	34	33	40
90°	1	3	4	5	4	3
95°	20	19	19	21	21	20
105°	57	91	58	58	53	60
115°	91	180	142	109	100	89
125°	115	185	204	189	187	103
135°	132	165	239	242	233	102
145°	142	160	208	250	260	89
155°	144	155	174	198	209	67
165°	145	150	158	165	168	41
175°	146	146	147	148	148	14
180°	145	145	145	145	145	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1133.7	1133.7	1133.7	1133.7	1133.7
2.5°	1133.7	1131.9	1125.2	1130.9	1131.9
5°	1129.0	1126.2	1121.5	1126.2	1126.2
7.5°	1124.3	1119.6	1113.9	1116.8	1114.9
10°	1111.1	1109.2	1101.6	1105.4	1103.5
12.5°	1096.0	1093.2	1083.7	1091.3	1089.4
15°	1080.9	1074.3	1065.8	1075.2	1071.4
17.5°	1055.4	1053.5	1044.1	1052.6	1046.9
20°	1029.0	1028.0	1020.5	1024.2	1023.3
22.5°	1002.5	999.7	995.0	995.9	995.0
25°	973.3	971.4	964.8	963.8	961.0
27.5°	943.1	942.1	932.7	932.7	931.7
30°	911.9	909.1	899.6	899.6	897.7
32.5°	878.9	874.1	865.6	863.8	859.0
35°	843.0	838.3	830.7	827.9	824.1
37.5°	802.4	801.5	792.0	789.2	786.4
40°	765.6	762.8	754.3	751.4	746.7
42.5°	725.9	725.9	715.6	708.9	707.1
45°	687.2	685.3	676.8	669.3	668.4
47.5°	646.6	645.7	639.1	627.8	627.8
50°	607.0	605.1	595.7	588.1	584.3
52.5°	563.6	566.4	557.0	548.5	543.7
55°	521.1	523.0	514.5	506.9	502.2
57.5°	480.5	481.4	472.0	466.3	462.6
60°	439.9	439.0	429.5	424.8	423.9
62.5°	397.4	395.5	388.0	383.3	378.5
65°	353.1	353.1	343.6	339.8	336.1
67.5°	311.5	308.7	302.1	298.3	293.6
70°	266.2	265.3	259.6	256.8	253.9
72.5°	225.6	222.8	220.0	216.2	213.3
75°	179.4	179.4	176.5	173.7	174.6
77.5°	139.7	138.8	135.9	134.0	134.0
80°	96.3	98.2	97.2	96.3	94.4
82.5°	62.3	63.2	60.4	60.4	61.4
85°	31.2	32.1	32.1	34.0	33.0
87.5°	10.4	11.3	13.2	14.2	14.2
90°	0.9	2.8	3.8	4.7	3.8
92.5°	10.4	11.3	14.2	14.2	14.2
95°	19.8	18.9	18.9	20.8	20.8
97.5°	29.3	30.2	23.6	24.5	24.5
100°	38.7	47.2	35.9	29.3	29.3
102.5°	48.1	68.9	47.2	41.5	37.8
105°	56.6	90.6	58.5	58.5	52.9
107.5°	65.1	110.4	73.6	61.4	61.4
110°	73.6	136.9	95.3	73.6	69.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	83.1	162.4	118.9	88.7	83.1
115°	90.6	180.3	141.6	108.6	100.1
117.5°	98.2	187.9	159.5	131.2	119.9
120°	104.8	190.7	172.8	154.8	143.5
122.5°	110.4	189.7	184.1	176.5	167.1
125°	115.2	185.0	203.9	188.8	186.9
127.5°	119.9	178.4	220.9	199.2	198.2
130°	125.6	171.8	234.1	206.7	208.6
132.5°	129.3	167.1	239.8	224.7	216.2
135°	132.2	165.2	238.8	241.7	233.2
137.5°	135.9	163.3	236.0	252.0	248.3
140°	138.8	163.3	230.3	256.8	258.7
142.5°	140.7	161.4	220.9	255.8	262.4
145°	141.6	159.5	207.7	250.2	259.6
147.5°	142.5	158.6	195.4	241.7	253.9
150°	142.5	156.7	186.0	228.4	243.6
152.5°	143.5	155.8	179.4	212.4	226.6
155°	143.5	154.8	173.7	198.2	208.6
157.5°	144.4	152.9	168.0	186.9	194.5
160°	145.4	152.0	164.3	177.5	183.1
162.5°	145.4	151.0	160.5	170.9	174.6
165°	145.4	150.1	157.6	165.2	168.0
167.5°	145.4	149.2	153.9	160.5	162.4
170°	146.3	148.2	151.0	155.8	156.7
172.5°	146.3	147.3	149.2	152.0	152.0
175°	146.3	146.3	147.3	148.2	148.2
177.5°	146.3	146.3	146.3	146.3	146.3
180°	145.4	145.4	145.4	145.4	145.4

(END OF REPORT)